

WHAT IS CLAIMED IS:

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1. A conveying apparatus comprising:
a rotary disc portion with a suction means which forms a slit on an outer peripheral surface and sucks through said slit so as to convey a conveyed article in a state of holding the conveyed article by suction to both sides of said slit; and
a linear conveying portion with a suction means which sucks said conveyed article riding over a pair of parallel conveying belts through a gap between said conveying belts so as to convey said conveyed article in a state of holding the conveyed article by suction to said conveying belt, and has one end opposing to said outer peripheral surface of said rotary disc portion so as to be capable of transfer said conveyed article.
2. A conveying apparatus as claimed in claim 1, wherein a ring-like supporting member having a high friction coefficient is provided in both sides of said slit along the outer peripheral surface of the rotary disc.
3. A conveying apparatus as claimed in claim 2, wherein said linear conveying portion is constituted by a first conveying portion and a second conveying portion having the same structure, one end of said first conveying portion opposes to the outer peripheral surface of said rotary disc portion so as to be capable of transferring said conveyed article, and one end of said second conveying portion opposes to another end of said first conveying portion so as to be capable of transferring said conveyed article.
4. A conveying apparatus as claimed in claim 3, further comprising:
an aligning and supplying apparatus for aligning said conveyed article so as to supply to said outer peripheral surface of said rotary disc portion in an opposite side to said first conveying portion of said rotary disc portion;
and

an air shutting means for closing said slit of the peripheral surface portion other than the peripheral surface portion reaching said first conveying portion from said aligning and supplying apparatus in a rotational direction of said rotary disc portion.

5. An inspecting apparatus using the conveying apparatus claimed in claim 1, 2, 3 or 4, comprising:

a side surface inspecting portion for inspecting a side surface of said conveyed article on said rotary disc portion;

a front surface inspecting portion for inspecting a surface of said conveyed article on said first conveying portion;

a back surface inspecting portion for inspecting a back surface of said conveyed article on said second conveying portion; and

a sorting portion for sorting said conveyed article in response to an inspected result.

6. An aligning and supplying apparatus for mounting a conveyed article having different thickness and width and capable of being stably mounted by setting a thickness direction or a width direction to a vertical direction, respectively, comprising:

a turn table ¹⁴ in which a step portion ¹⁹ having a predetermined height is provided along a peripheral edge of a mounting surface;

a width guide ¹⁷ crossing to said step portion in such a manner as to guide said conveyed article mounted on said mounting surface from a center side to an outer peripheral side due to a rotation of said turn table, having one end positioned at the center side of said turn table rather than said step portion and having another end protruding outward from the outer periphery of said step portion so as to be fixed; and

a thickness gate ²² arranged in an upper side of said conveyed article

passing within said width guide on said turn table, and having a projection portion protruding toward said conveyed article so as to be capable of getting down said conveyed article in a high attitude on said step portion without getting down said conveyed article in a low attitude at a time when said conveyed article moving along said width guide due to the rotation of said turn table rides over said step portion.

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